## INTERMEC IP CORP. U.S. PATENTS

OMM Client-Matter No.	Title	Serial No.	Filing Date	Patent No.	Issue Date
0411951-00004	METHOD AND APPARATUS FOR MATRIX SYMBOLOGY IMAGER	08/255,002	07-Jun-94	5,536,924	16-Jul-96
0411951-00006	METHOD AND APPARATUS FOR CONTROLLING TRANSPORT OF THERMAL TRANSFER RIBBON	08/294,082	22-Aug-94	5,593,238	14-Jan-97
0411951-00012	SOURCE DATA COMPRESSION AND DECOMPRESSION IN CODE SYMBOL PRINTING AND DECODING	08/533,113	25-Sep-95	5,764,774	86-unf-60
0411951-00013	RESOLUTION GAIN ON WIDTH MODULATED BAR CODES BY USE OF ANGLED SAMPLING IN TWO DIMENSIONS	08/515,035	14-Aug-95	5,777,308	07-Jul-98
0411951-00014	MEDIA ROLL BRAKING SYSTEM FOR A THERMAL LABEL PRINTER	08/507,783	26-Jul-95	5,562,034	08-Oct-96
0411951-00015	SPUR GEAR RATCHET MECHANISM FOR THERMAL TRANSFER PRINTER	08/591,967	29-Jan-96	5,601,373	11-Feb-97
0411951-00016	FIXED MOUNT IMAGER USING OPTICAL MODULE FOR READING ONE OR TWO-DIMENSIONAL SYMBOLOGY DATA	08/546,778	23-Oct-95	5,659,431	19-Aug-97
0411951-00018	BAR CODE READING SYSTEM FOR RECONSTRUCTING IRREGULARLY DAMAGED BAR CODES	08/572,514	14-Dec-95	6,039,252	21-Mar-00
0411951-00019	PROBLEM REDUCTION WITH LOW LEVEL INFORMATION INTEGRATION IN BAR CODE DECODING	08/554,184	06-Nov-95	5,777,310	07-Jul-98
0411951-00020	APPARATUS FOR PREVENTION FORMATION OF CONDENSATION ON AN ELECTROOPTICAL SCANNER WINDOW	08/579,292	27-Dec-95	5,729,003	17-Mar-98

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0411951-00021	RASTERING LASER SCANNER WITH BEAM LOCATION FEEDBACK	08/674,581	02-Jul-96	5,844,222	01-Dec-98
0411951-00022	PRIORITIZED SEARCHING METHODS FOR FINDING A CODED SYMBOL IN A DIGITIZED IMAGE	08/617,026	18-Mar-96	5,764,798	86-unf-60
0411951-00023	HIGH RESOLUTION LASER IMAGER FOR LOW CONTRAST SYMBOLOGY	08/624,173	29-Mar-96	6,330,974	18-Dec-01
0411951-00025	METHOD AND APPARATUS FOR UTILIZING SPECULAR LIGHT TO IMAGE LOW CONTRAST SYMBOLS	08/680,239	11-Jul-96	5,811,777	22-Sep-98
0411951-00026	APPARATUS FOR PROVIDING BACK TENSION ON A PRINT MEDIA WEB	08/727,116	08-Oct-96	5,859,656	12-Jan-99
0411951-00028	MULTI-MEDIA THERMAL PRINTER	09/250,827	17-Feb-99	6,151,055	21-Nov-00
0411951-00029	METHOD AND APPARATUS FOR SELECTING PRINTER PARAMETERS FOR DIFFERENT TYPES OF PRINT MEDIA	08/732,059	16-Oct-96	5,711,621	27-Jan-98
0411951-00032	GENERIC HANDHELD SYMBOLOGY SCANNER WITH A MODULAR OPTICAL SENSOR	08/872,949	11-Jun-97	6,003,775	21-Dec-99
0411951-00033	SELF-CALIBRATING LABEL GAP SENSOR CIRCUIT WITH A CURRENT REGULATOR	08/700,158	20-Aug-96	5,693,931	02-Dec-97
0411951-00034	METHOD AND APPARATUS FOR COMPENSATING FOR PRINTER TOP-OF-FORM AND IMAGE STRETCH ERRORS	9/262//80	05-Dec-96	5,915,865	29-Jun-99
0411951-00041	DATA COMMUNICATION SYSTEM FOR PRINTER AND HANDHELD COMPUTER	08/986,003	05-Dec-97	6,236,486	22-May-01
0411951-00042	THERMAL PRINTHEAD WITH INTERGRATED PRINTHEAD POSITION SENSOR	08/771,588	20-Dec-96	5,746,521	05-May-98

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0411951-00044	METHOD APPARATUS TO DETERMINE POSITION AND SENSE MOTION OF LINERLESS MEDIA	08/435,024	04-May-95	5,803,635	08-Sep-98
0411951-00046	METHOD AND APPARATUS FOR ADJUSTING LATERAL IMAGE REGISTRATION IN A MOVING WEB PRINTER	08/522,033	31-Aug-95	5,733,054	31-Mar-98
0411951-00047	METHODS AND APPARATUS FOR COMPENSATING STEP DISTANCE IN A STEPPING MOTOR DRIVEN LABEL PRINTER	08/522,738	31-Aug-95	5,803,624	08-Sep-98
0411951-00066	METHOD AND APPARATUS FOR IDENTIFYING BAR CODE SYMBOLS USING READING GATES	08/838,005	14-Apr-97	5,923,022	13-Jul-99
0411951-00069	MULTI-MODE RADIO FREQUENCY NETWORK SYSTEM	08/962,908	03-Nov-97	6,295,461	25-Sep-01
0411951-00073	LABEL PRINTER HAVING INTEGRATED OPTICAL SCANNER MODULE	09/013,116	26-Jan-98	5,988,898	23-Nov-99
0411951-00077	ADJUSTABLE LIGHT SHUTTER FOR HAND HELD ELECTRO-OPTICAL SCANNERS	08/902,663	30-Jul-97	5,842,070	24-Nov-98
0411951-00078	SCANNER WITH DIRECT PIXEL ACCESSING FROM MULTIPLE PIXEL MEMORY ARRAY	08/581,829	02-Jan-96	5,798,509	25-Aug-98
0411951-00080	PRINTER FEEDBACK CONTROL AND EVENT LIBRARY TO COMPENSATE FOR AND PREDICT VARIABLE PAYOUT FORCES	08/999,384	18-Dec-97	6,015,241	18-Jan-00
0411951-00082	NOISE CANCELLATION SYSTEM FOR A THERMAL PRINTER	09/162,499	29-Sep-98	6,232,994	15-May-01
0411951-00084	METHOD AND APPARATUS TO DETERMINE POSITION AND SENSE OF MOTION OF LINERLESS MEDIA	09/003,545	06-Jan-98	5,915,864	29-Jun-99
0411951-00085	METHOD AND APPARATUS FOR ADJUSTING LATERAL IMAGE REGISTRATION IN A MOVING WEB PRINTER	09/000,901	30-Dec-97	6,099,176	08-Aug-00

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0411951-00087	METHOD AND APPARATUS FOR BAR CODE ASSOCIATION FOR WIRELESS NETWORK	09/152,996	14-Sep-98	6,149,063	21-Nov-00
0411951-00089	METHOD AND APPARATUS FOR UTILIZING SPECULAR LIGHT TO IMAGE LOW CONTRAST SYMBOLS	09/154,758	22-Jan-01	6,367,699	09-Apr-02
0411951-00095	FINGER POINT BAR CODE INPUT DEVICE	09/239,265	29-Jan-99	6,234,393	22-May-01
0411951-00096	HAND HELD USER COMPUTER INTERFACE	09/307,369	07-May-99	6,243,258	05-Jun-01
0411951-00100	RADIO FREQUENCY IDENTIFICATION INTEROGATOR SIGNAL PROCESSING SYSTEM FOR READING MOVING TRANSPONDERS	09/153,617	15-Sep-98	6,122,329	19-Sep-00
0411951-00101	LIQUID CRYSTAL DISPLAY AND BACKLIGHT HEATER	09/203,964	02-Dec-98	6,163,359	19-Dec-00
0411951-00106	DATA RECOVERY SYSTEM FOR RADIO FREQUENCY IDENTIFICATION INTERROGATOR	09/294,469	20-Apr-99	6,501,807	31-Dec-02
0411951-00107	METHOD FOR DETERMINING WHEN A COMMUNICATION DEVICE SHOULD RATE SHIFT OR ROAM IN A WIRELESS ENVIRONMENT	09/291,581	12-Apr-99	6,556,553	29-Apr-03
0411951-00108	ZERO LOSS BIAS "T"	09/314,645	19-May-99	6,229,408	08-May-01
0411951-00109	MICROELECTROMECHANICAL SYSTEMS SCANNING MIRROR FOR A LASER SCANNER	860'867/60	22-Apr-99	6,155,490	05-Dec-00
0411951-00113	GAPLESS LABEL MEDIA AND PRINTING APPARATUS FOR HANDLING SAME	09/174,639	19-Oct-98	6,019,531	01-Feb-00
0411951-00114	PERFORMANCE OPTIMIZED SMART LABEL PRINTER	09/305,393	05-May-99	6,246,326	12-Jun-01
0411951-00115	RFID TAG HAVING TIMING AND ENVIRONMENT MODULES	09/412,091	04-Oct-99	6,294,997	25-Sep-01
0411951-00117	LOW-COST RADIO REPLACEMENT UTILIZING RFID TECHNOLOGY	09/394,24I	13-Sep-99	6,608,551	19-Aug-03

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0411951-00118	LINERLESS LABEL TRACKING SYSTEM	09/209,230	10-Dec-98	6,163,260	19-Dec-00
0411951-00134	METHOD FOR APPLYING PRINTER REGISTRATION MARKS TO LINERLESS LABEL STOCK	09/368,250	03-Aug-99	6,210,054	03-Apr-01
0411951-00138	RE/ID TRANSPONDER WITH SQUINTED BEAM RADIATION PATTERN USING DIPOLE-OVER-GROUND PLANE ANTENNA	09/286,121	02-Apr-99	6,166,638	26-Dec-00
0411951-00141	RADIO FREQUENCY IDENTIFICATION TRANSPONDER HAVING A REFLECTOR	09/259,745	27-Feb-99	6,441,740	27-Aug-02
0411951-00144	METHOD AND APPARATUS FOR TESTING RFID TAGS	09/167,026	96-Oct-98	6,104,291	15-Aug-00
0411951-00146	COMBINATION RADIO FREQUENCY TRANSPONDER (RF TAG) AND MAGNETIC ELECTRONIC ARTICLE SURVEILLANCE (EAS) MATERIAL	09/071,413	01-May-98	5,939,984	17-Aug-99
0411951-00150	AUTOMATED RFID TRANSPONDER MANUFACTURING ON FLEXIBLE TAPE SUBSTRATES	09/365,792	03-Aug-99	6,140,146	31-Oct-00
0411951-00151	RFID TRANSPONDERS WITH PASTE ANTENNAS AND FLIP-CHIP ATTACHMENT	09/443,621	19-Nov-99	6,259,408	10-Jul-01
0411951-00153	METHOD AND APPARATUS FOR WIRELESS RADIO FREQUENCY TESTING OF RFID INTEGRATED CIRCUITS	09/247,900	10-Feb-99	6,236,223	22-May-01
0411951-00159	RFID INTEGRATED IN ELECTRONIC ASSETS	09/185,858	04-Nov-98	6,249,227	19-Jun-01
0411951-00161	MAGNETIC TAPE STORAGE MEDIA HAVING RFID TRANSPONDERS	09/195,528	18-Nov-98	6,201,474	13-Mar-01
0411951-00162	RADIO FREQUENCY IDENTIFICATION SYSTEM	09/182,170	29-Oct-98	6,100,804	08-Aug-00
0411951-00163	SYSTEM FOR CONTROLLING ASSETS	09/190,564	12-Nov-98	6,121,878	19-Sep-00

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0411951-00166	METHOD AND SYSTEM FOR AUTOMATIC ADJUSTNENT AND DIAGNOSIS OF RADIO FREQUENCY IDENTIFICATION SYSTEMS USING PROGRAMMABLE CHECKTAGS	09/470,159	22-Dec-99	6,486,769	26-Nov-02
0411951-00167	STICKER TRANSPONDER FOR USE ON GLASS SURFACE	09/321,506	27-May-99	6,121,880	19-Sep-00
0411951-00168	ULTRA-THIN OUTLINE PACKAGE FOR INTEGRATED CIRCUIT	09/417,635	14-Oct-99	6,518,885	11-Feb-03
0411951-00169	AUTOMATIC PAYMENT SYSTEM FOR A PLURALITY OF REMOTE MERCHANTS	09/452,547	01-Dec-99	6,529,880	04-Mar-03
0411951-00170	ACTIVE RF TAG WITH WAKE-UP CIRCUIT TO PROLONG BATTERY LIFE	09/407,919	29-Sep-99	6,593,845	15-Jul-03
0411951-00171	RADIO FREQUENCY IDENTIFICATION TRANSPONDER HAVING A HIGH GAIN ANTENNA CONFIGURATION	09/374,956	16-Aug-99	6,320,509	20-Nov-01
0411951-00172	SYSTEM AND METHOD FOR COMMUNICATING WITH AN RFID TRANSPONDER WITH REDUCED NOISE AND INTERFERENCE	09/390,461	07-Sep-99	6,639,509	28-Oct-03
.0411951-00184	EMBEDDED RFID TRANSPONDER IN VEHICLE WINDOW GLASS	09/401,619	21-Sep-99	6,275,157	14-Aug-01
0411951-00185	NETWORKING APPLICATIONS FOR AUTOMATED DATA COLLECTION	09/625,647	26-Jul-00	6,853,294	08-Feb-05
0411951-00191	RFID TRANSPONDER HAVING ACTIVE BACKSCATTER AMPLIFIER FOR RETRANSMITTING A RECEIVED SIGNAL	09/470,327	22-Dec-99	6,838,989	04-Jan-05
0411951-00195	RADIO FREQUENCY TAG WITH MINIATURIZED RESONANT ANTENNA	09/423,063	29-Oct-99	6,285,342	04-Sep-01
0411951-00197	RFID TAG EMPLOYING HOLLOWED MONOPOLE ANTENNA	09/470,164	22-Dec-99	6,366,260	02-Apr-02

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0411951-00201	RADIO FREQUENCY IDENTFICATION TRANSPONDER EMPLOYING PATCH ANTENNA	09/191,642	13-Nov-98	6,215,402	10-Apr-01
0411951-00202	RADIO FREQUENCY IDENTIFICATION TRANSPONDER HAVING A SPIRAL ANTENNA	09/191,641	13-Nov-98	6,118,379	12-Sep-00
0411951-00205	DISTRIBUTED IMPEDANCE MATCHING CIRCUIT FOR HIGH REFLECTION COEFFICIENT LOAD	09/192,052	13-Nov-98	6,177,872	23-Jan-01
0411951-00206	RADIO FREQUENCY TRANSPONDER WITH IMPROVED READ DISTANCE	06/318,590	25-May-99	6,281,794	28-Aug-01
0411951-00207	ANTENNA FOR RF TAG WITH A MAGNETOELASTIC RESONANT CORE	06/309,330	11-May-99	6,130,612	10-Oct-00
0411951-00210	APARATUS AND METHOD FOR RADIO FREQUENCY TRANSPONDER WITH IMPROVED READ DISTANCE	09/277,271	26-Mar-99	6,147,606	14-Nov-00
0411951-00215	METHOD OF USING WRITE-OK FLAG FOR RADIO FREQUENCY (RF) TRANSPONDERS (RF TAGS)	08/862,913	18-Nov-00	6,288,629	11-Sep-01
0411951-00217	SYSTEM METHOD AND APPARATUS FOR DENTEPTING AND COMMUNICATING WITH A PLURALITY OF TYPES OF RADIO FREQUENCY COMMUNICATION DEVICES	08/811,989	05-Mar-97	6,172,596	09-Jan-01
0411951-00221	LOW-VOLTAGE, LOW-POWER BANDGAP REFERENCE CIRCUIT WITH BOOTSTRAP CURRENT	10/011,847	05-Nov-01	6,566,850	20-May-03
0411951-00224	RFID INTERROGATOR HAVING CUSTOMIZED RADIO PARAMETERS WITH LOCAL MEMORY STORAGE	10/013,109	07-Dec-01	7,039,359	02-May-06
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0411951-00230	ADJUSTABLE LENGTH ANTENNA SYSTEM FOR RF TRANSPONDERS	008/29/200	19-Jan-01	6,535,175	18-Mar-03
0411951-00234	RFID TAG HAVING COMBINED BATTERY AND PASSIVE POWER SOURCE	09/911,598	23-Jul-01	6,944,424	13-Sep-05
0411951-00235	PASSIVE RFID TAG THAT RETAINS STATE AFTER TEMPORARY LOSS OF POWER	10/056,398	23-Jan-02	6,812,841	02-Nov-04
0411951-00239	FREQUENCY HOPPING SPREAD SPECTRUM SCHEME FOR RFID READER	10/814,411	30-Mar-04	7,103,087	05-Sep-06
0411951-00240	SELF-COMPENSATING SPEAKER VOLUME CONTROL SYSTEM FOR DATA COLLECTION TERMINAL	10/993,641	19-Nov-04	7,210,633	01-May-07
0411951-00251	DATA ENCODING IN RADIO FREQUENCY IDENTIFICATION TRANSPONDERS	10/876,443	24-Jun-04	7,190,257	13-Mar-07
0411951-00259	TUNABLE RFID TAG FOR GLOBAL APPLICATIONS	11/081,239	15-Mar-05	7,323,977	29-Jan-08
0411951-00263	COMBINATION RADIO FREQUENCY IDENTIFICATION TRANSPONDER (RFID TAG) AND MAGNETIC ELECTRONIC ARTICLE SURVEILLANCE (EAS) TAG	10,772,221	04-Feb-04	7,002,475	21-Feb-06
0411951-00264	NETWORKING APPLICATIONS FOR AUTOMATED DATA COLLECTION	11/021,871	23-Dec-04	7,142,092	28-Nov-06
0411951-00268	COMBINATION RADIO FREQUENCY IDENTIFICATION TRANSPONDER (RFID TAG) AND MAGNETIC ELECTRONIC ARTICLE SURVEILLANCE (EAS) TAG	10/985,665	10-Nov-04	7,084,770	01-Aug-06
0411951-00270	REFERENCE CIRCUIT ENCHANCEMENT FOR PASSIVE RFID TAGS	11/121,909	03-May-05	7,075,413	11-Jul-06

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